

FIG. 1

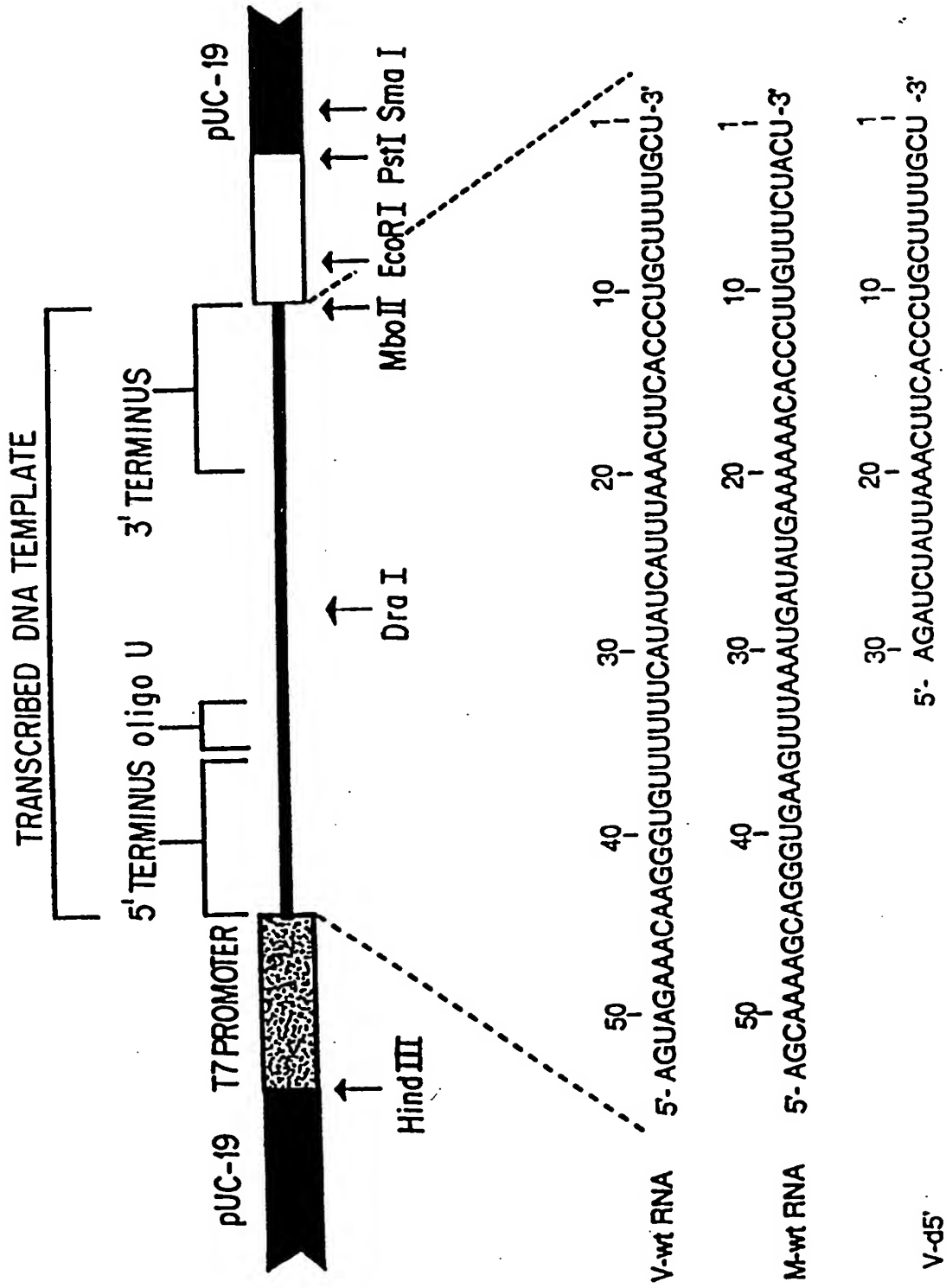


FIG. 2

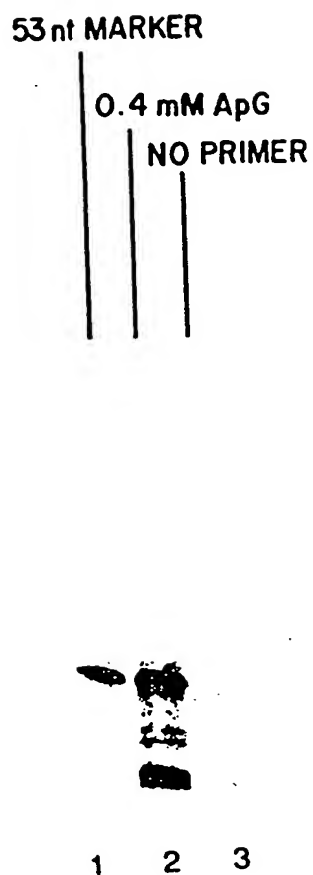


FIG. 3A

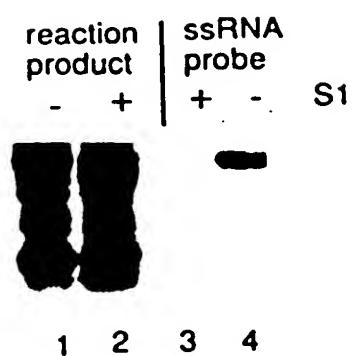


FIG. 3B

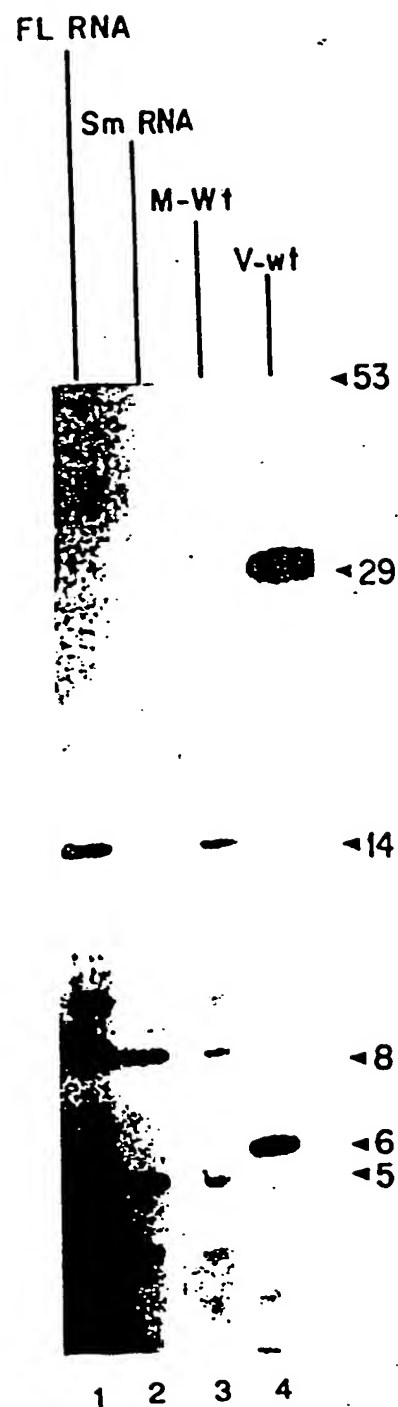


FIG. 3C

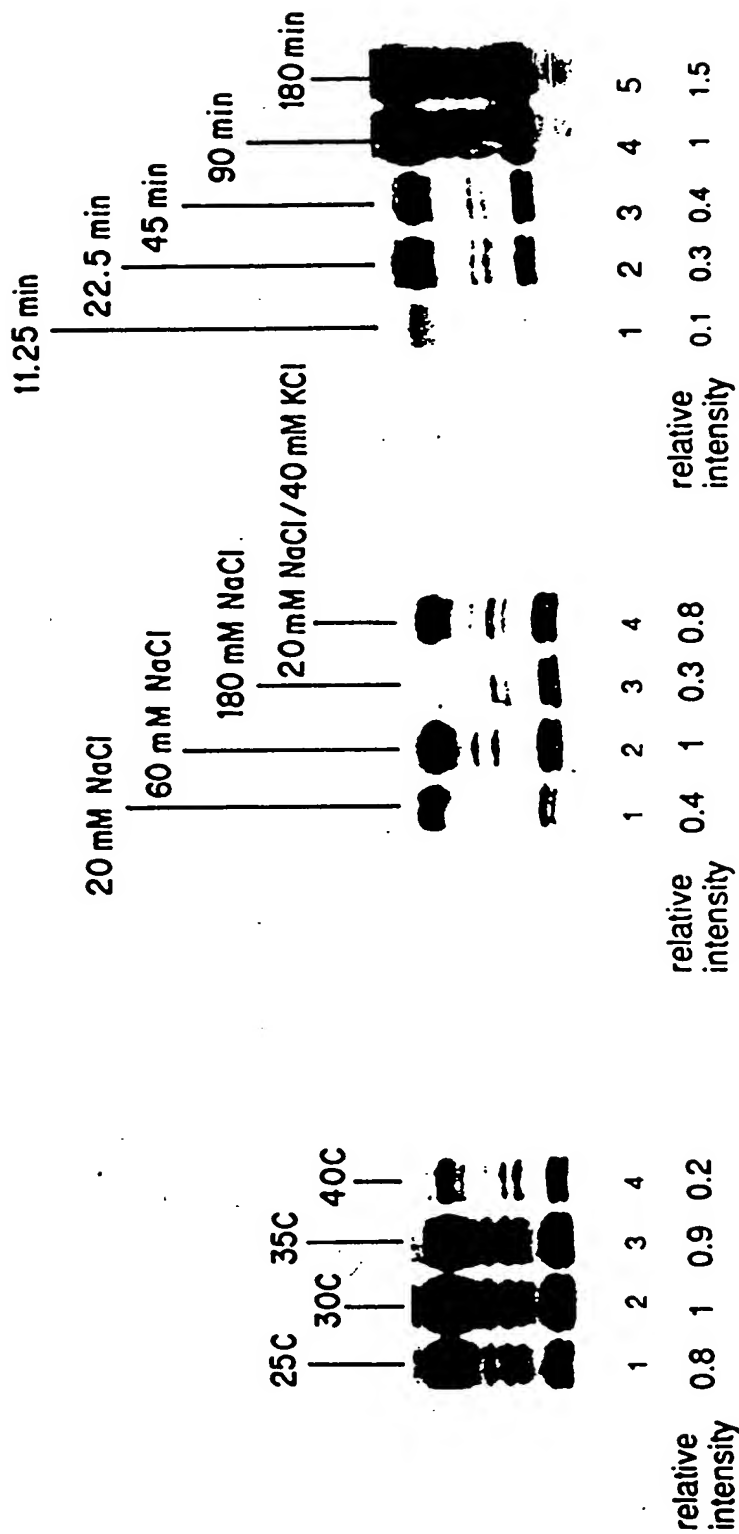


FIG. 4A

FIG. 4B

FIG. 4C

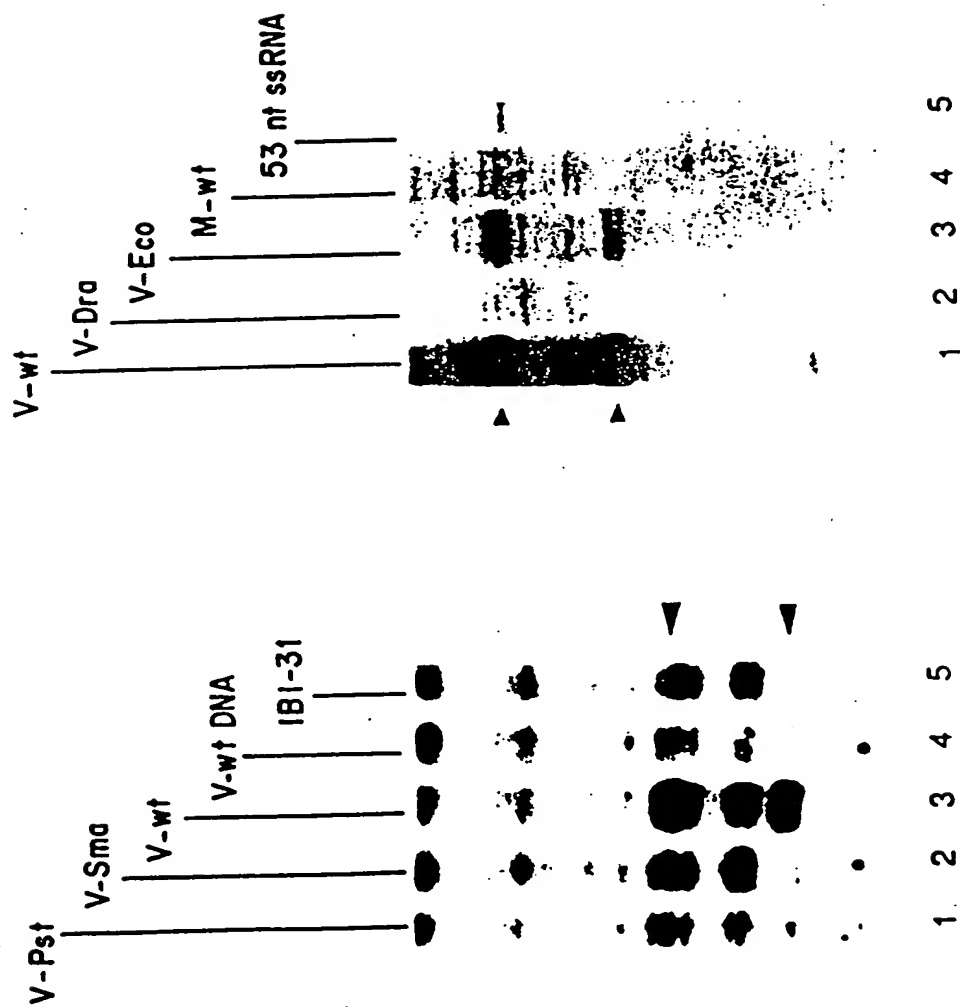


FIG. 5B

FIG. 5A

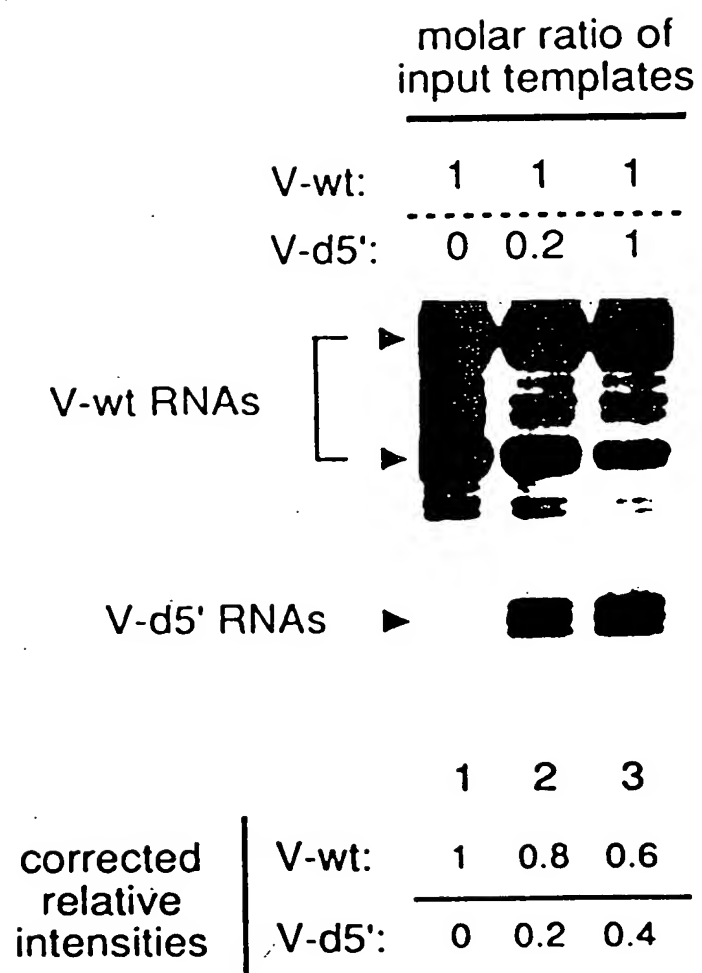


FIG. 6

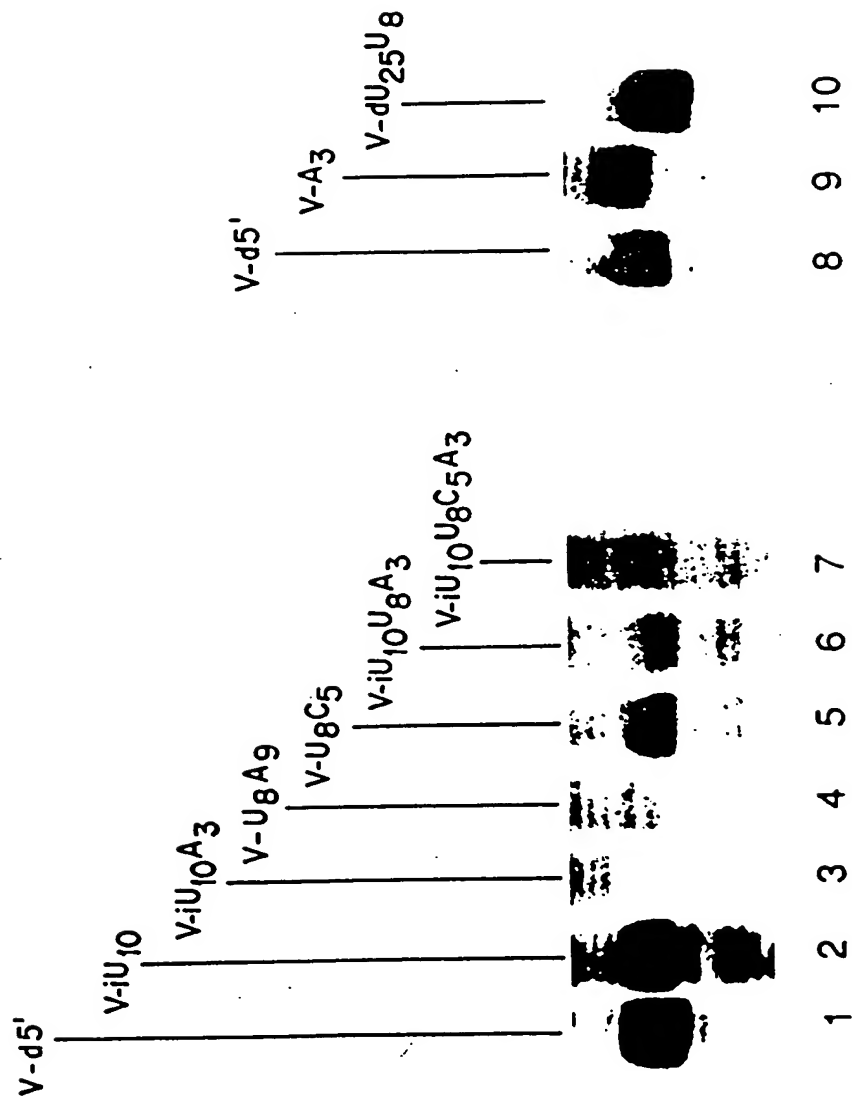


FIG. 7

³²P 30 nt TEMPLATE

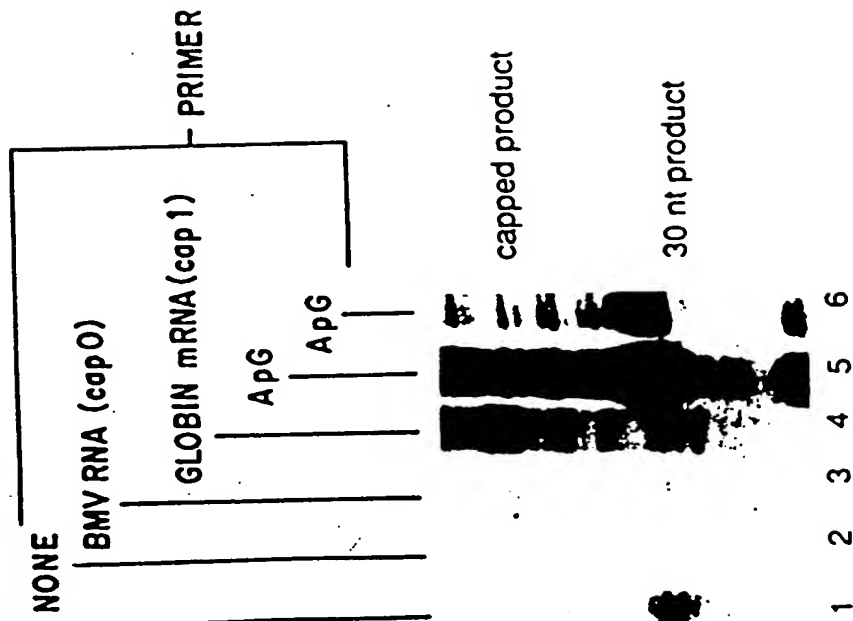


FIG. 8A

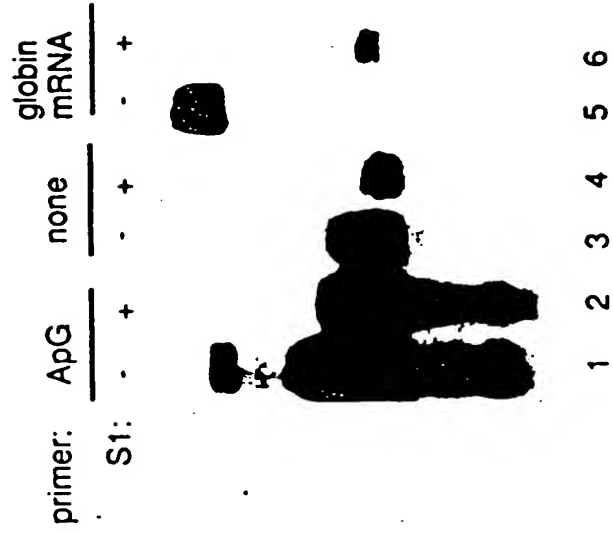


FIG. 8B

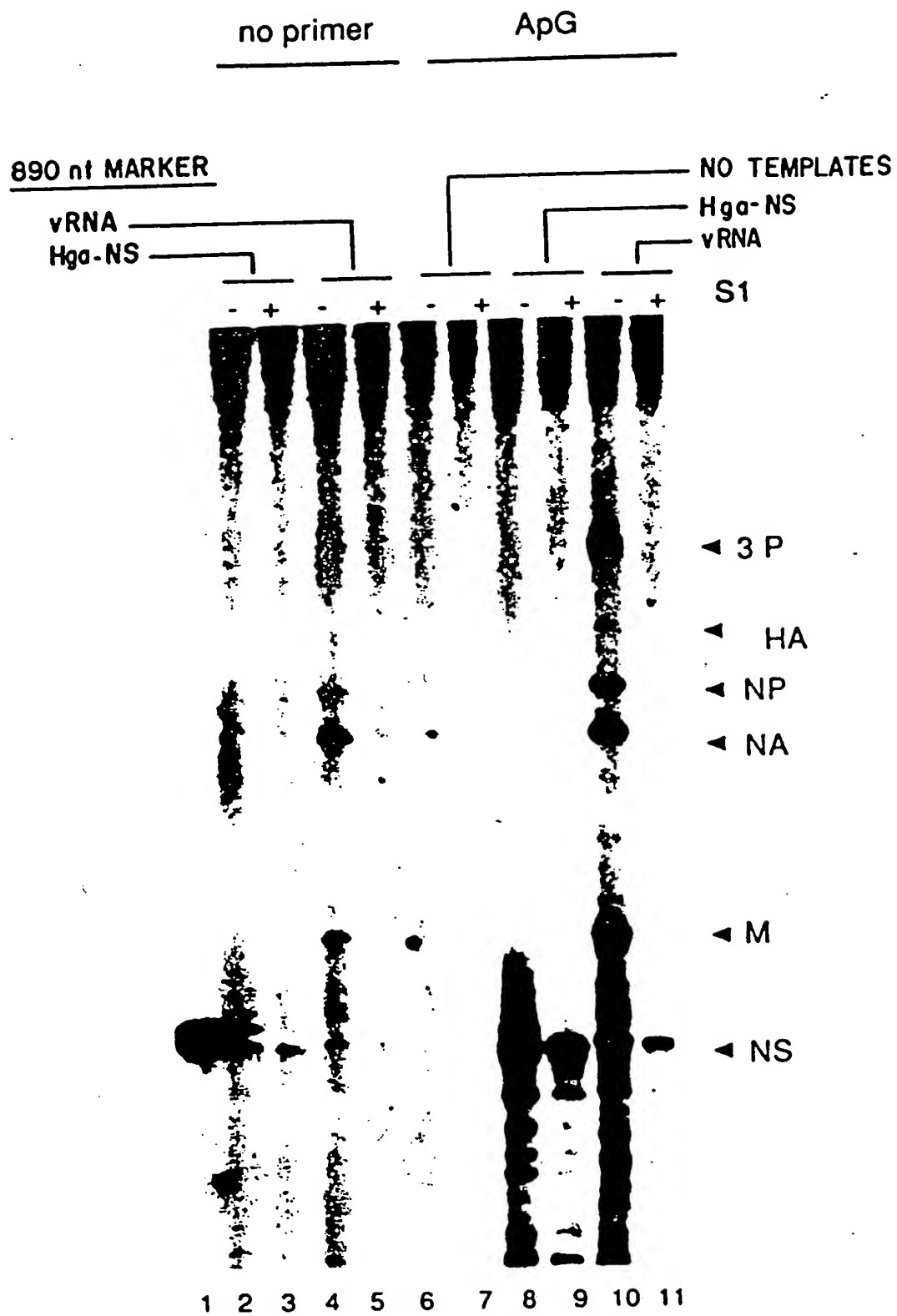
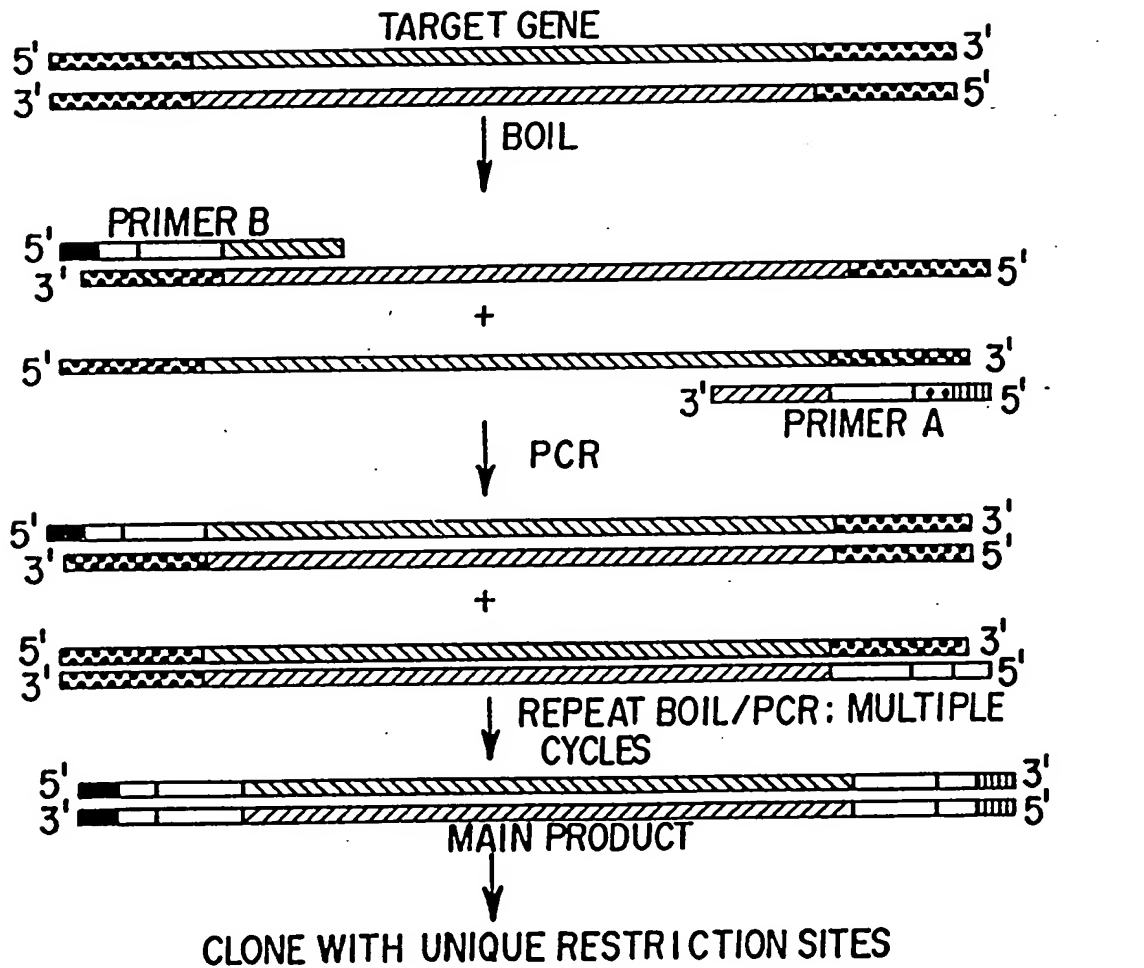


FIG. 9

FIG. 10



FLANKING SEQUENCE	PHAGE PROMOTER
; UNIQUE RESTRICTION SITES	VIRAL SEQUENCE (5' OR 3')
; TARGET GENE SEQUENCE	CLASS IIS SITE

FIG. IIA

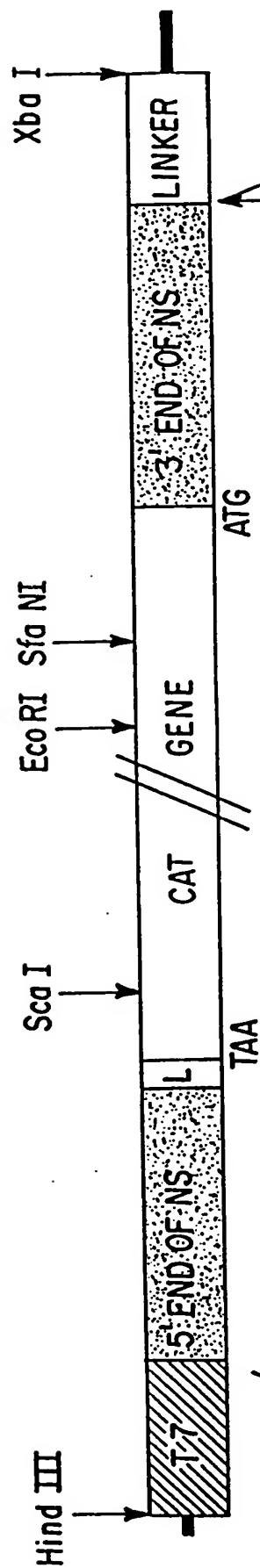
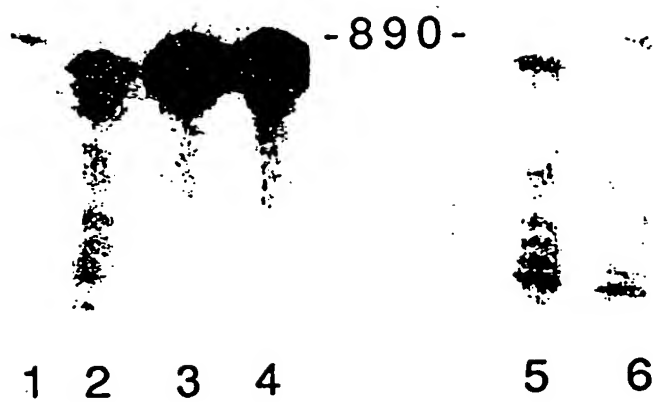


FIG. IIB

5' AGUAGAAACAAGGGUGUUUU CAGAUUA UUACGCCCCGCCC // GUGGUUAUACCCAGUGAUUUUUUUUUUUUUUCCAU UAUUGUCUUUUGUCACCCUGCUUUUGCU 3'

FIG. 12



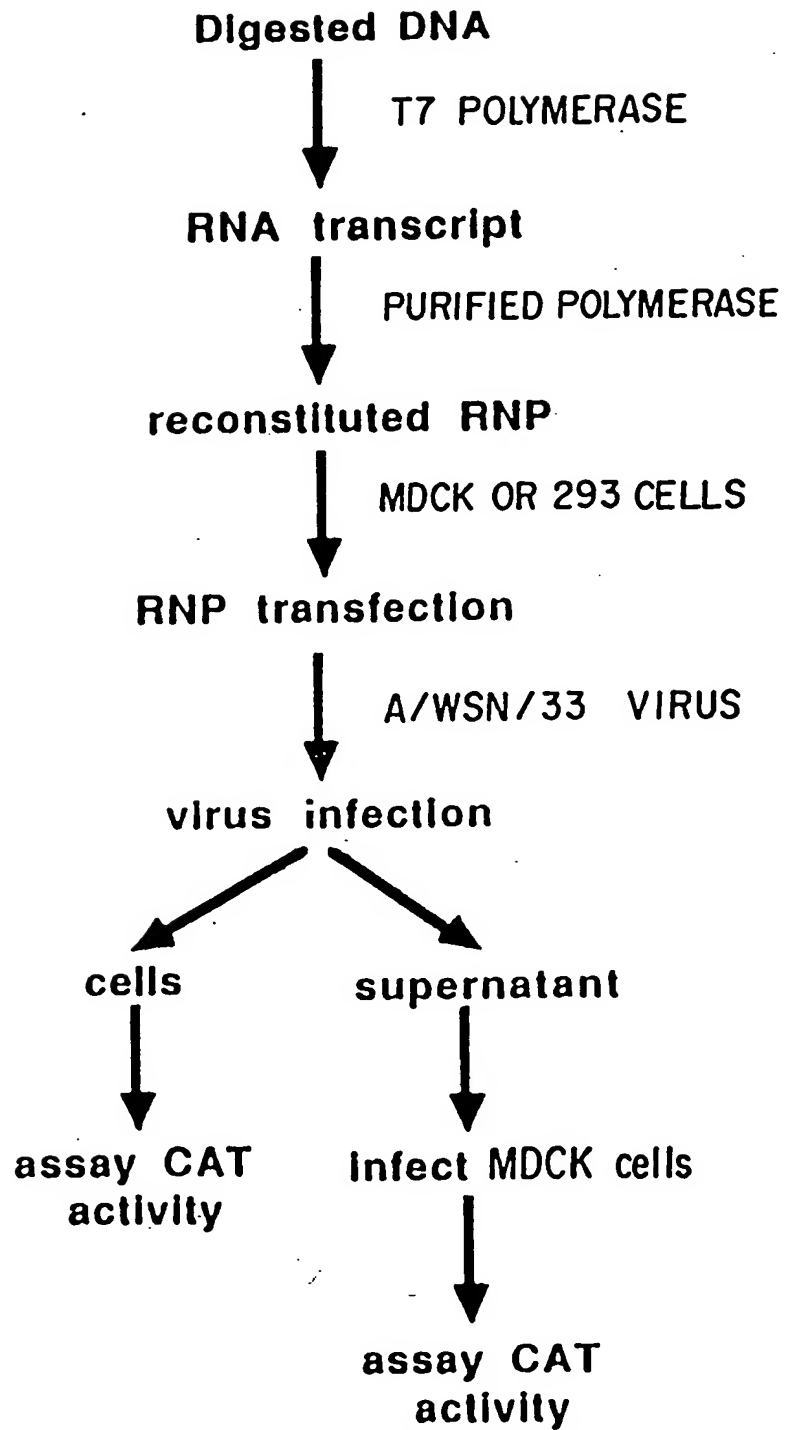


FIG. 13

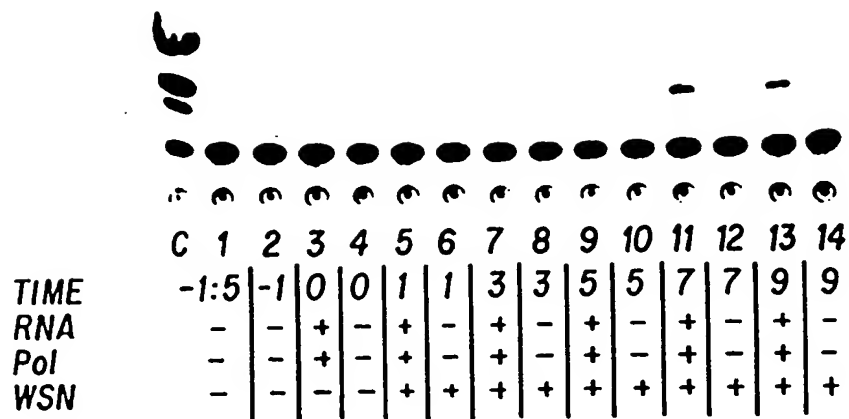


FIG. 14A

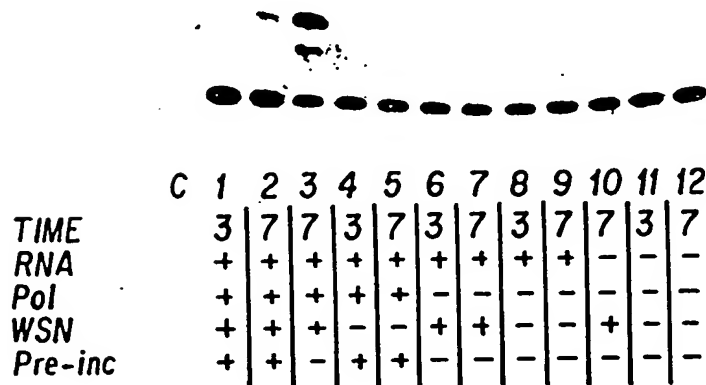


FIG. 14B

FIG. 14C

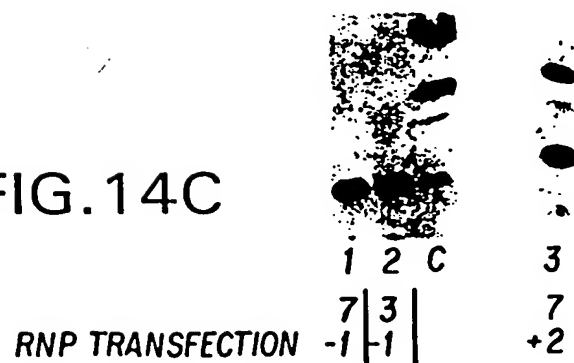
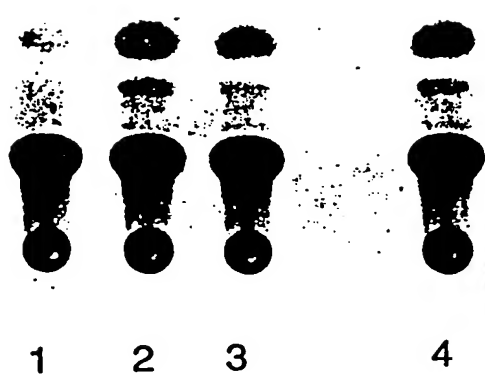


FIG. 15



3



△

T3N Av mut2

13N AV MUTZ
5'- AGUAGAAACAAGGAG.....CUGCAUAGUAUCCUAAUUUUAUAUCUAGAUUUGGUGGAAACUCACCCCAUGG.....CCUGCUUUGCU-3'

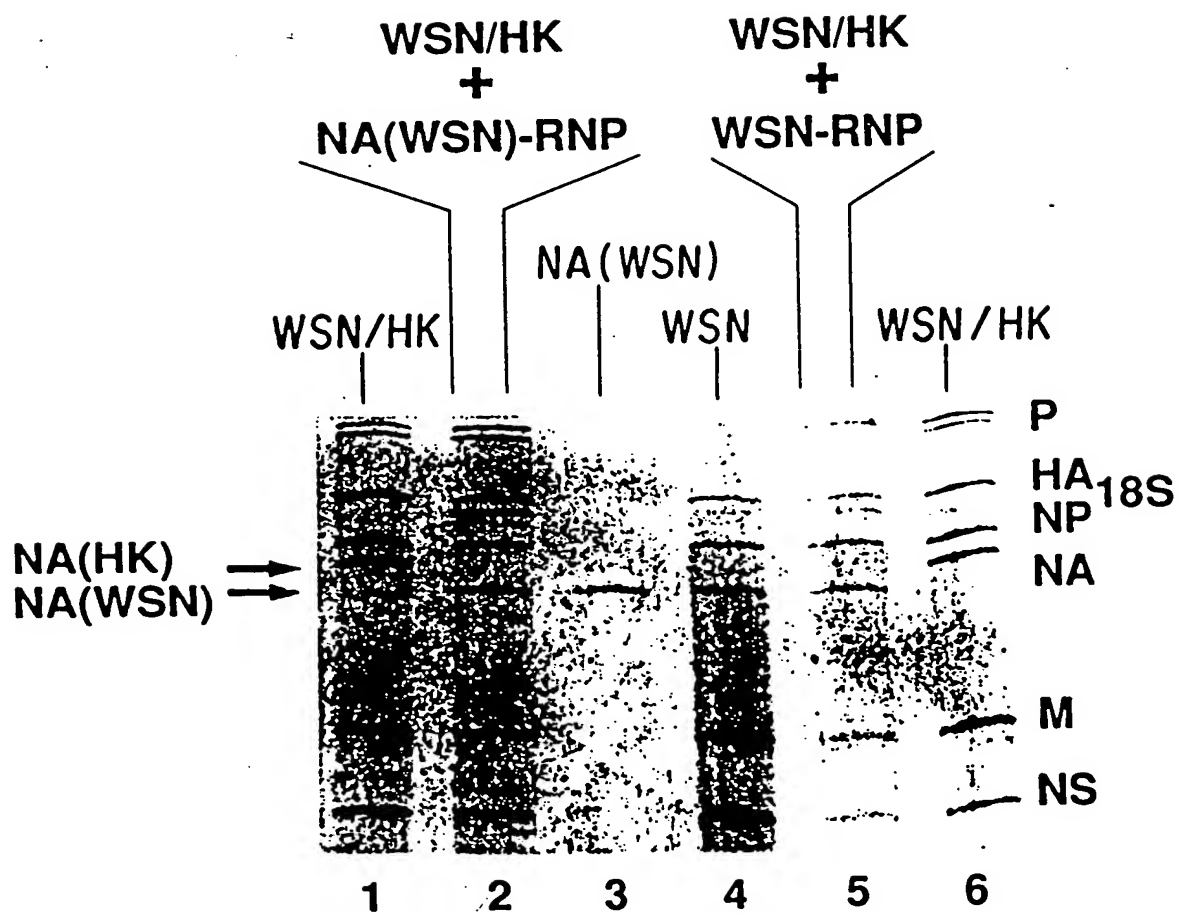
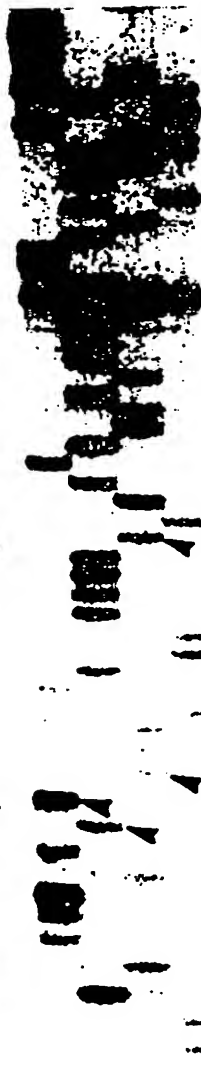


FIG. 17

GATC

GATC



CAG
ATΔTG
GATAC
AATAG
TATAA
TAGAT
AAATC
GACCA
GTTTC
GGTGA
CCATG

FIG. 18

FIG.19



1	2	3	4	5	6	7	8
C	NAKED RNA	NO VIRUS	INF. VIRUS	PB2	PB2 PB1	PB2 PB1 PA	PB2 PB1 PA NP
	NO VIRUS						



9	10	11
PB2 PA NP	PB2 PB1 PA NP	PB1 PA NP

1	2	3	4	5	6	7	8
MDCK		Hela		293		L	
PB2	PB2	PB2	PB2	PB2	PB2	PB2	PB2
PB1	PB1	PB1	PB1	PB1	PB1	PB1	PB1
PA	PA	PA	PA	PA	PA	PA	PA
	NP		NP		NP		NP

1	2	3	4
3PNP-4			
PB2	PB2	PB1	PB1
PB1	PB1	PA	PA
PA	PA		NP
	NP		

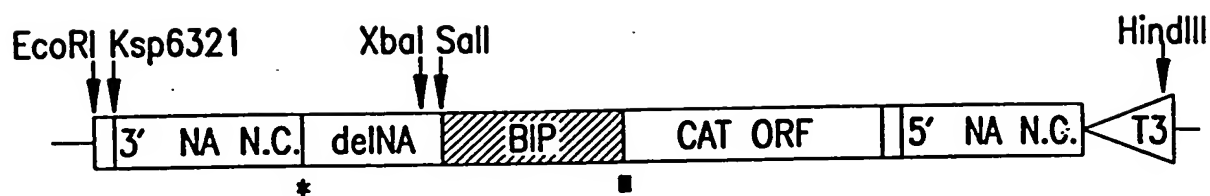


FIG.21A

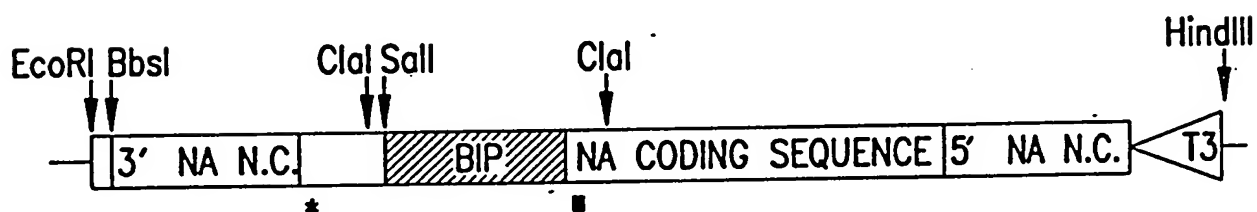


FIG.21B

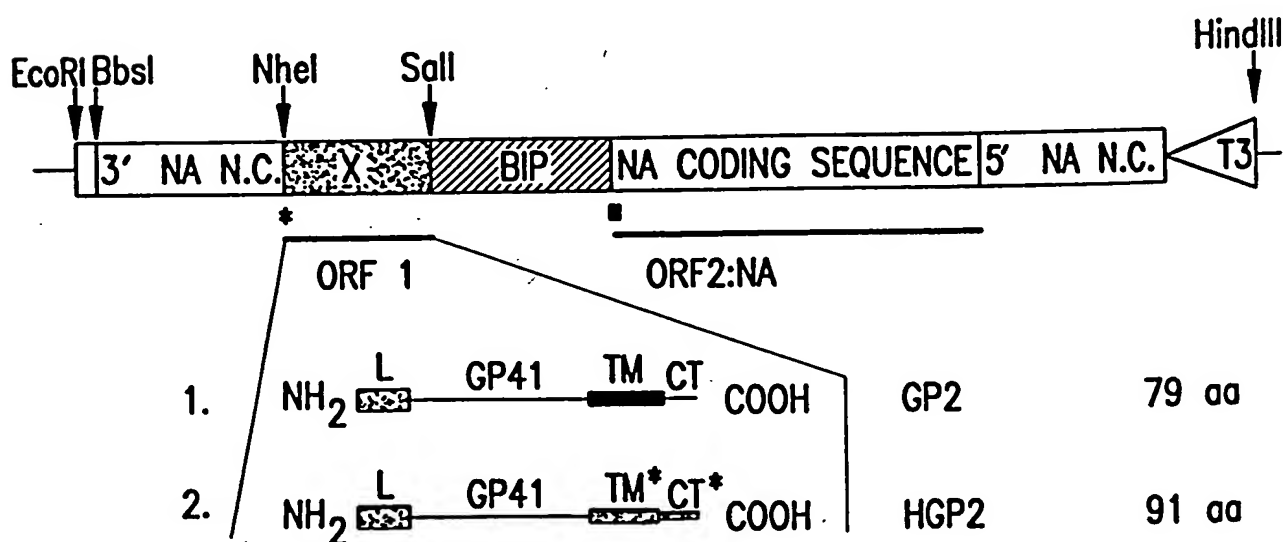


FIG.21C

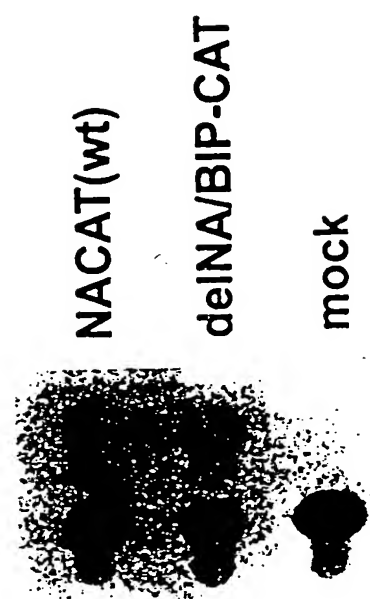


FIG.22

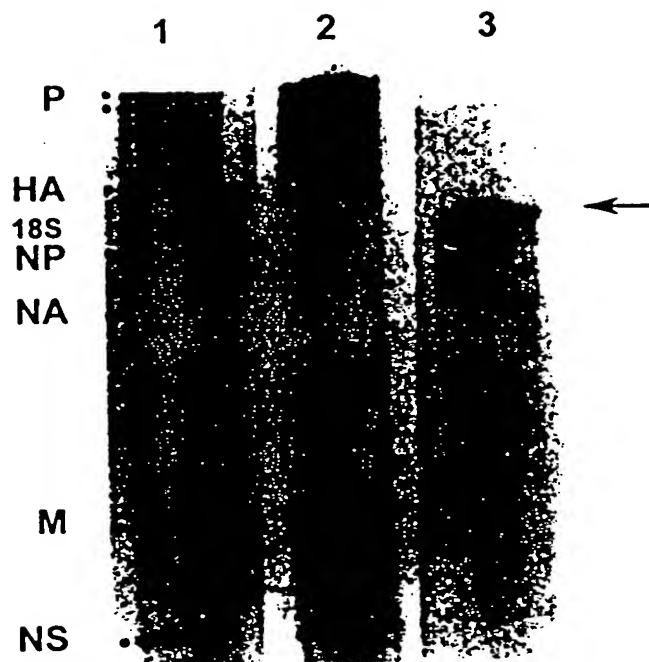


FIG.23

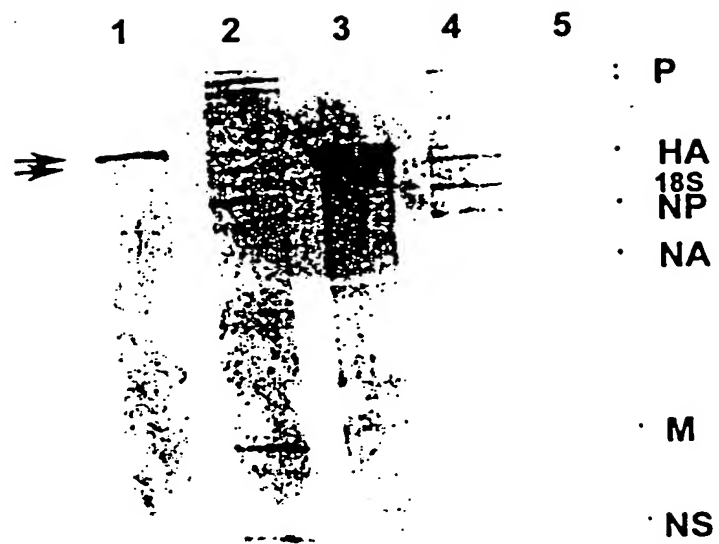


FIG.24

FIG.25A

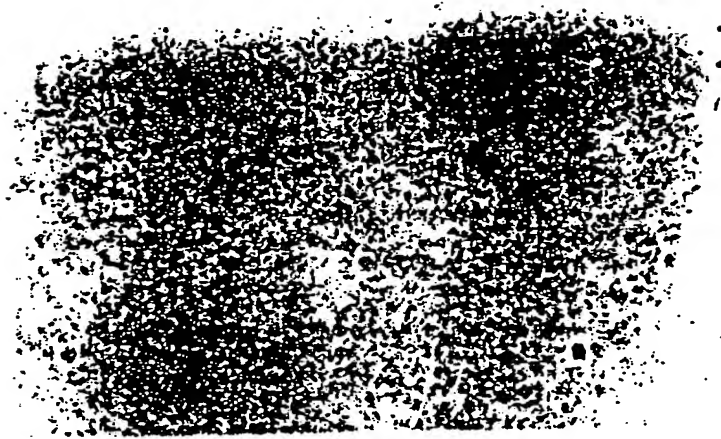


FIG.25B

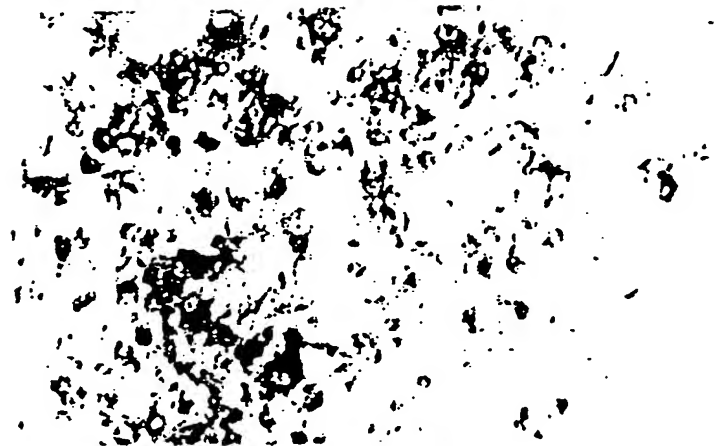


FIG.25C



1 2 3

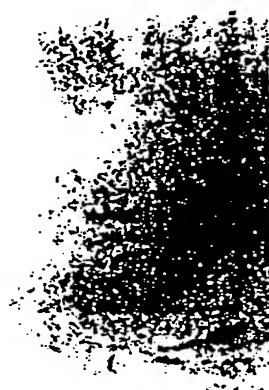


FIG.26A

1 2 3



-30,000

-20,000

-14,400

FIG.26B